DC linear actuator for positioning.

Miniature 6mm positioning device with internal gear.

maxon motor have released a 6mm micro linear positioning drive with internal gearing. It is available in metal and ceramic versions. Micro DC motor linear positioning systems are suitable for applications that require accurate positioning and high forces whilst maintaining minimal weight and a small footprint. For example: syringe pump actuation and lens or sensor adjustment in a production or laboratory environment. The linear speed, length and forces can be controlled and adjusted by combining a suitable brushed or brushless DC motor, encoder and motor drive electronics. Up to 11N continuous and 15N intermittently can be achieved with linear speeds of 25mm/s. The ceramic version gives high efficiency and longer lifespan whilst for less demanding applications the metal version is more cost effective. With a linear actuator, thrust bearing system and planetary gearhead in one assembly a weight of only 2.9g is possible, making the device also suitable for specialist robotic applications.

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Length of this press release: 177 words.
The media release is available on the internet at: www.maxonmotor.com.au
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